

Claims

1. A fiber-optic cable arrangement with a plug housing (1), which, per fiber-optic cable, has a guide segment (2) and a clamping segment (3) for the attachment of the fiber-optic cable (4) to the plug, wherein the clamping segment (3) has projections (5) on the inside for anchoring to the fiber-optic cable, which are pressed in the cable sheath by crimping, characterized in that the fiber-optic cable (4) has an outer sheathing (6), an inner sheathing (7), and a fiber-optic fiber (9), protected by a protective layer (8), and the clamping segment (3) of the fiber-optic plug has projections (5) on at least two axially extending subregions (10) of its inner wall for crimping with the inner (7) and outer (6) sheathings of the fiber-optic cable (4).

2. The fiber-optic plug-cable arrangement according to claim 1, further characterized in that the clamping segment (3) is divided into two regions:
 - a first region (3a) that lies toward the guide end and has an inner diameter adapted to the diameter of the inner cable sheathing (7) and
 - a second region (3b) that lies on the cable side and has an inner diameter adapted to the diameter of the outer cable sheathing (6), wherein the length of the stripped outer sheathing (6) corresponds essentially to the small specified dimension of the length of the guide region plus that of the first clamping region.

3. The fiber-optic plug-cable arrangement according to claim 1 or claim 2, further characterized in that the axial regions (10), together with projections (5), form a regular or asymmetric serrated profile.
4. The fiber-optic plug-cable arrangement according to one of the preceding claims, further characterized in that the plug-in region has a cylindrical recess for the polymer fiber (9) with protective layer (8), in which the fiber (9) is held with little radial play and by means of which the face side of the fiber is somewhat retracted with respect to the head end of the plug housing.
5. The fiber-optic plug-cable arrangement according to one of claims 1 to 4, further characterized in that the clamping regions (3a, 3b) expand conically toward the cable end in order to make possible a forced release from an injection mold.
6. The fiber-optic plug-cable arrangement according to claim 5, further characterized in that the cone angle (α) is approximately 2° .
7. The fiber-optic plug-cable arrangement according to claim 5 or claim 6, further characterized in that at least the flanks (5) of the serrated profile on the cable end side assume an angle of less than 45° with respect to the plug axis.
8. The fiber-optic plug-cable arrangement according to one of the preceding claims, further characterized in that four axially extending subregions (10) with projections are mutually arranged at 90° angles, the width of each of the subregions (10) in the circumferential direction being essentially identical to the width of the gaps in the circumferential direction between the subregions.